Technical Activities
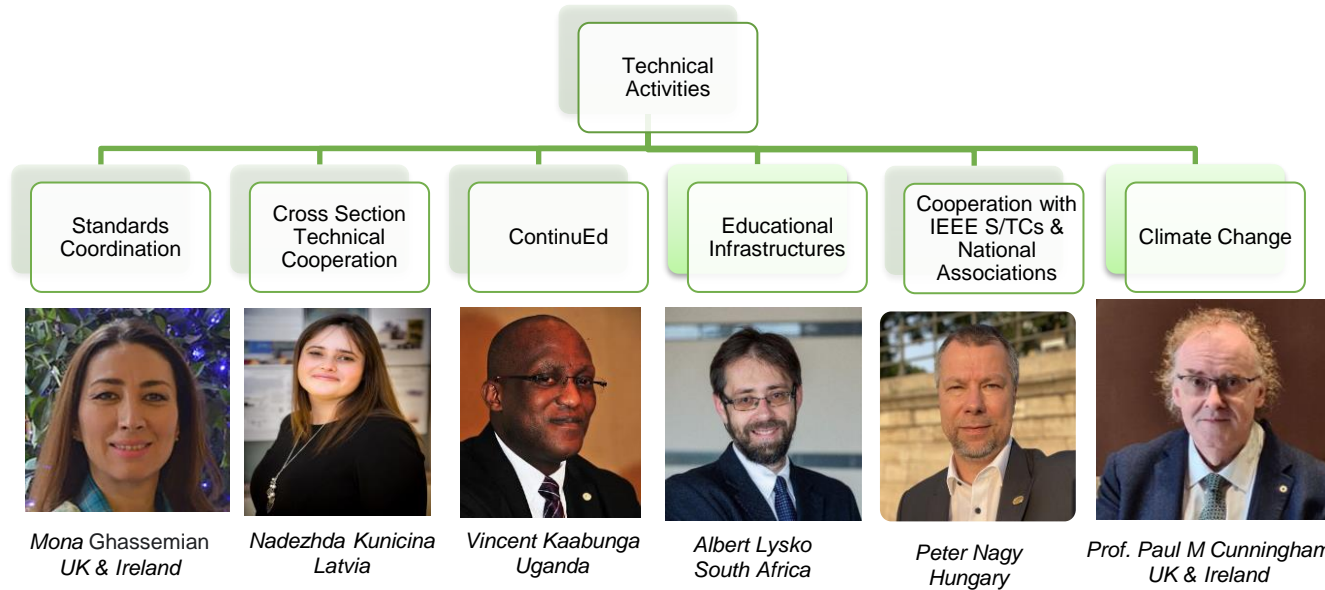
Marios Antoniou

Region 8 Committee Meeting Spring 2024

Vienna 2 March 2024

Technical Activities

Ad Hoc Committees


```
Technical Activities
├── Standards Coordination
├── Cross Section Technical Cooperation
├── ContinuEd
├── Educational Infrastructures
├── Cooperation with IEEE S/TCs & National Associations
└── Climate Change
```

Mona Ghassemian
UK & Ireland

Nadezhda Kunicina
Latvia

Vincent Kaabunga
Uganda

Albert Lysko
South Africa

Peter Nagy
Hungary

Prof. Paul M Cunningham
UK & Ireland

Standards Coordination AdHoc

Spring 2024

Mona Ghassemian

IEEE R8 SC STANDARDS COORDINATION

Standards Coordination Committee Members

IEEE R8 SC STANDARDS COORDINATION

Shadid Mumtaz
Portugal

Tuncer Baykas
Turkey

Mona Ghassemian
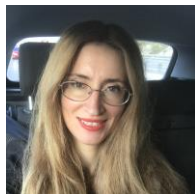*UK and Ireland*
(Chair)

Vikass Monebhurrun

David Law
UK and Ireland

Albena Moveska
Bulgaria

Maria-Alexandra Paun
Switzerland

IEEE R8 SC STANDARDS COORDINATION

Shmuel Auster
Israel

Clara Napel
Austria (ex-officio)

Committee Website: https://ieeer8.org/category/technical-activities/standards-coordination/

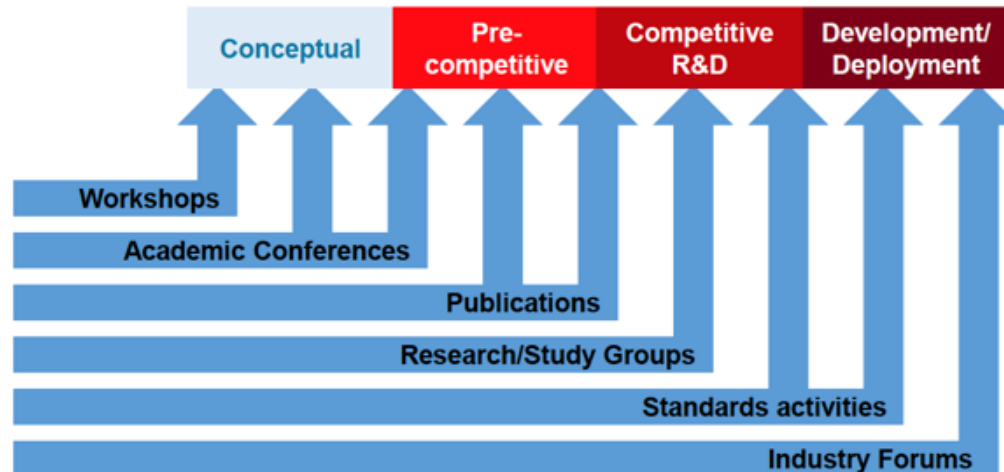Contact: standards.coordinator@ieeer8.org

4

Goals and KPIs

Standard Coordination Committee

▸**Goal description**: The primary objective is to encourage active engagement in standardisation activities and raise awareness about IEEE standards within Region 8.

▸**Key performance indicators.** Target participation in four related IEEE events annually to deliver technical, educational or strategy planning to improve IEEE R8 standardisation activities

▸**Key Value Indicators:** Collaboration cooperation with IEEE SA to promote IEEE standardisations

Standards Coordination Committee Expertise

R8 SC team can arrange speakers for Climate change, moblity, AI Ethics, Aerospace Electronics, Antennas and Propagation, Batteries, Communications, Computer Technology, Electromagnetic Compatibility, Green and Clean Technology, Healthcare IT, Industry Applications, Instrumentation and Measurement, Nuclear Power, Power and Energy, Smart Grid, Software and Systems Engineering, Transportation, Wired and Wireless Communications, Robotics, Metaverse as well standard development in general.

Progress made since Sections Congress (Aug 2023)

IEEE R8 SC STANDARDS COORDINATION

Standard Coordination Committee

▸IEEE PIMRC conference panel, Toronto, Sep 2023

▸IEEE CSCN conference, Munich, November 2023

▸Scientific partner one6G Summit 2023, Munich, November 2023

▸IEEE GlobeCom 2023, panel, KL, Malaysia, Dec 2023

▸Joint webinar with Action with Industry (IEEE 802 Standards) available online

▸IEEE 802 Standards (INTERACT Cost meeting Poland)

▸The Role of Connectivity in Industrial Automation (Luxembourg LIST)

▸How Li-Fi Could Revolutionise Wireless Communications (IEEE SA)

▸Turkiye Nuclear Business Platform (IEEE SA silver sponsor)

▸Introduction to Standards: IEEE Turkiye Students Summit

Plans for 2024

Standard Coordination Committee

▸ Close collaboration and planning including joints events with R8 Committees (e.g., Strategic Planning, Entrepreneurship, Climate Change, AFI, Chapter Coordination (including local groups), Conference Coordination, YP and WIE),

▸ Inviting SA Board Members (incl BoG, standard board members) to Region 8 meetings,

▸ Coordinating Region 8 officers (e.g., host section chair or nominated section ExCom) to participate in standardization events,

▸ Provide sessions to raise awareness of IEEE standardization activities in IEEE Region 8, as well as related external activities with the IEEE SA coordination.

Cross-section Technical Cooperation AdHoc

Spring 2024

Nadezhda Kunicina

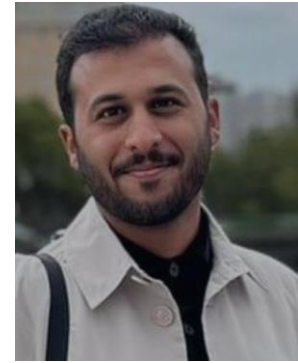# AdHoc name committee members 2024

Nadezhda Kunicina

(Latvia)

Ahmed Zobaa

(UK & Ireland)

Ester Muchiri
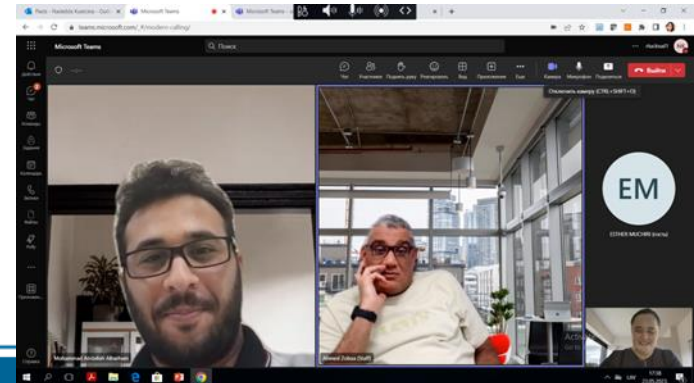
(Kenya)

Muhammad Al-Braham

(UAE)

Goals and KPIs

Committee is directed to study, stimulate and coordinate possible technical activities across sections, disseminate best practice for R8.

We are ready to help to organize e.g. to sent e – notice to different sections, promoting multi sectional event.

We are ready to organize and present best practice in R8 in physical and virtual events Academic, Industry, WiE, Students &YPs.

KPI – to serve 100% of Sections requests in Cross-section Technical Cooperation.

Progress made 2023- 2024

- Special events to enrich the program and cross-sectional cooperation/ Workshop on IEEE conference organization and sponsorship 5.12.2023 speaker Nadezhda Kunicina

- Cross-sectional cooperation IEEE R8 Chapter Panorama speaker Muhammad Al-Brham

- Cross-sectional cooperation evens co joint with AFRICON2023 20th – 22nd September 2023 Esther Muchiri

- Cross-sectional cooperation activities co joint with technical talks on Electrical Power Engineering Ahmed Faheem Zobaa

Plans for 2024

▸ Training in power supply and electrotechnics (Baltic/Nordic region)

▸ Cooperation for education activities (EU/ Non EU)

▸ Planning of several industrial event (under progress)

▸ Planning of several event for Students and YP (under progress)

▸ Presentation in regional events

Cooperation with IEEE S/TCs and National Associations

Spring 2024

Peter Nagy, Hungary

Cooperation with IEEE S/TCs and National Associations Committee Members

Peter Nagy
Hungary

Ilhem Kallel
Tunisia

Reinhard Moeller
Germany

Erol Gelenbe
UK & Ireland

Bruno Meyer
France

Igor Kuzle
Croatia

Shahid Mumtaz
Portugal

Mariusz Malinowski
Poland

Gloria Chukwudebe
Nigeria

Bochra Boudriga
Tunisia

Goals and KPIs

- ▸ Collecting best practices of existing cooperations' with national organization
  – at least 10 activities
- ▸ Sharing these lessons learned with R8 Section chairs to showcase the available opportunities
  – a presentation at a Region 8 meeting
- ▸ Support the R8 section chairs to strengthen the cooperation
  – at least 5 deep discussions

Progress made and plans for 2024

Completed activities

● List the active agreements

● Contact the 1st round section chairs

1st round sections

Benelux section ---> Bruno Meyer

France section ---> Erol Gelenbe

Germany section ---> Reinhard Moeller

Hungary section ---> Peter Nagy

Poland section ---> Mariusz Malinowski

Switzerland section ---> Bochra Boudriga

Tunisia section ---> Ilhem Kallel

UK and Ireland section ---> Shahid Mumtaz

Later this year

● *Evaluate the feedback from sections*

● *Compile the initial best practice list*

● *Contact the 2nd round section chairs*

● *Compare the activities in Region 10 and Region 9*

● *Share a ready-to-implement list of activities with Section Chairs*

● *Support Section Chairs to implement the new agreement(s)*
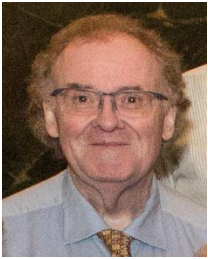
  – if needed

Climate Change AdHoc Committee

Spring 2024

Prof. Paul M Cunningham
Chair, UK and Ireland Section (2024 – 2025)
Past Director, Division VI
pcunningham@ieee.org

IEEE Region 8 Committee on Climate Change - Members

- **Prof. Paul M Cunningham (Chair)** – Coordination, Liaison with TAB Presidents and Division Directors
- **Maurine Chepkemoi** – Climate Change Liaison with Sections, Young Professionals and WIE in Africa
- **Prof. René Garello** – Oceans, Climate Change Liaison with Sections, Young Professionals & WIE in Europe
- **Cybele Ghanen** – Climate Change Liaison with Sections, Young Professionals and WIE in Middle East
- **Prof. Aoife Foley** – Green Energy, Clean Tech, Decarbonization

Prof. Paul M Cunningham
UK & Ireland

Maurine Chepkemoi
Kenya

Prof. René Garello
France

Cybele Ghanen
Lebanon

Aoife M. Foley
UK & Ireland

Goals of IEEE Region 8 Committee on Climate Change

- Sustain Strategic Relationships with Relevant IEEE OUs, Committees and Task Forces

- Increase Visibility of IEEE Climate Change Activities and Capacity across Region 8
    - Showcase IEEE Activities and Capacity in Africa, Europe & Middle East
    - Promote Inclusion of Climate Change Topics at IEEE Supported Events in Region 8
    - Identify and Promote Contribution of Climate Change focused DLs/Subject Matter Experts at Chapter, Section, Region & Society/Council Supported Events in Region 8

- Support Coordination of IEEE Climate Change Activities across Region 8

- Explore Potential Region 8 Contributions to the COP Process

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Plans for 2024

- Raise visibility of IEEE across Region 8 as key Climate Change Strategic Partner
    - Partnered with IEEE Technology Centre on Climate Change to submit Multi-Stakeholder Policy Session for European Sustainable Energy Energy Week (Belgium, 11 – 13 June)
    - Partnering with R8 CCC to organize Climate Change Workshop (Italy, IEEE IHTC 2024)
    - Climate Change in IEEE Week Activities (London, Liverpool, Dublin, 30th Sept – 4th Oct)

- Contributing to pan-IEEE Climate Change Strategic Priorities
    - Contributing to organization of 2024 IEEE Online Forum on Climate Change Technologies
    - Contributing to identification protocols for IEEE Climate Change Subject Matter Experts
    - Contributing to planning of 2025 IEEE CleanTech Solutions Conference (R8 Shortlisted)
    - Showcase Climate Change related Good Practices from IEEE and Strategic Partners

- Secure Active Contributing Section Liaisons Across All of Africa, Europe and Middle East
    - Confirmed - 22 Section Liaisons from 19 Sections (8 Europe, 7 Africa, 4 Middle East)

- Encourage All Region 8 Sections to Contribute to Climate Change Mappin/Calendar

Call for Action

- Enthusiastic volunteers to systematically capture and submit data about relevant
  - Governmental, NGOs and academic institutions supporting Climate Change related issues
  - Climate Change Policies at National Level across Africa, Europe and Middle East
  - Activities (including but not limited to Roadmaps, Programs, Projects, Standards)
  - Future (including Annual) Events (including but not limited to Competition/Hackathon, Conference, Forum, Training/Course, Webinar/Seminar, Workshop)
  - Partnerships (Collaboration between different stakeholders, including but not limited to Government, Industry, Education & Research, Not-for-Profit & Multilateral Organisations)
  - Publications (including Journals, Magazines, Newsletter, Periodical, White Paper)
- Insight on IEEE and non-IEEE activities, publications and events are equally critical to create a comprehensive Region 8 CC Landscape Map to inform future IEEE opportunities
- Please reach out to me if you are willing to contribute – pcunningham@ieee.org

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AdHoc Committee on Educational Infrastructure

Spring 2024

Albert Lysko

AdHoc Committee on Educational Infrastructure

committee members

- **Albert Lysko**, South Africa (Chair)

- **Igor Matias**, Switzerland (Vice-Chair)

- **Murielle Lacombled**, France (Vice-Chair)

- **Aleksei Tepljakov**, Estonia

- **Ala' F Khalifeh**, Jordan

- **Ali Hussain Alfayly**, Kuwait

- **Barbara Vujkov**, Serbia

- **Neecharl Ramprosand**, Mauritius

- **Sohaib Qamar Sheikh**, UK

- and two ex-officio members, IEEE Region 8 Director **Vincenzo Piuri**,

- and IEEE Region 8 Vice-Chair: Technical Activities, **Marios Antoniou**

Goals and KPIs

▸ **Mission**

This Ad-Hoc committee shall study services and infrastructures and prepare a framework to make technical knowledge and practical skills more accessible and support the expansion of Region 8 educational activities
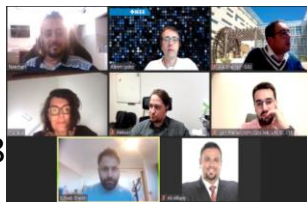
▸ **Goals/KPIs**

1. Identify existing resources

2. Develop guidelines for conducting events to produce high-quality, usable content in various formats, such as videos, recordings, etc.

3. Create a framework for efficiently distributing educational content and materials, including storage and promotion strategies
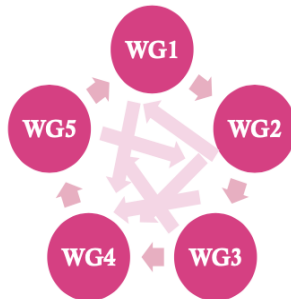
Team Achievements & Approaches

Guidelines developed:
- Framework for capturing and distributing educational material in R8
- Recording the educational material
- Publicity plan for event organizers
- Submitting material for posting in the platform/repository

So far, we covered these repositories:
IEEE.tv, IEEE vTools, IEEE R8 Local Language program, IEEE Center for Leadership Excellence (CLE)/IEEE Volunteer Education, IEEE Learning Network (ILN), YouTube, and TikTok

5 WORKING GROUPS

WG1 RECORDING FOR EDUCATIONAL MATERIAL
Group Leader: Ala Contributions from : Neecharl, Albert, Murielle

WG2 PUBLICITY PLAN FOR EVENT ORGANIZERS TO SOLICIT CREATION OF MATERIALS
Group Leader Ala _ Contributions from : Neecharl, Albert

WG3 SUBMIT MATERILA FOR POSTING IN THE REPOSITORY
Group Leader: Sohaib, Contributions From: Aleksei, Albert

WG4 HOW TO TRANSFORM EVENTS IN EDUCATIONAL ACTIVITIES BY ADDING VIDEORECORDING OF RELEVANT ASPECTS
Group Leader: Igor _ Contributions from : Aleksei, Murielle, Albert

WG5 MONETIZATION & INCENTIVE
Group Leader: Murielle _ Contributions From: Aleksei, Sohaib, Albert, Ala,, Igor, Barbara, Ali, N

+ Cooperation with other R8 Committees (esp. on Professional and Educational Activities)

Tool comparison (so far)

Adding: IEEE TAB Resource Centre

Item	Content	Access	Upload	Approval	Cost	Comments
IEEE tv	videos	anyone	members	yes	none	
IEEE vTools	Text	volunteers	n/a (**can ask to implement**)	Mostly self-approved	none	
IEEE R8 Local Language program	Not defined yet	Anyone	Not defined yet	Not defined yet	Not defined yet	This was being planned by the R8 PEASc in 2022, with no additional details to date
Center for Leadership Excellence (CLE), IEEE Volunteer Education	Multimedia and training, provided by/via IEEE	Members, voluneers	By IEEE staff?	By IEEE staff?	none	Content focused on volunteers
YouTube	Video, audio	Anyone	YouTube account(s) with access to the specific channel	Automatically approved after YouTube rules compliance check	None (with ads); Ad-free access at marginal cost	Four channels found relevant: TryEngineering, IEEE Academic, IEEE Academic Portugal, and IEEE Xplore
TikTok						Deemed unsuitable due to political instability and associated access challenges
IEEE Learning Network (ILN) and Educational Activities Board (EAB)	Videos (MP4 or SCORM)	Selective access based on registration and, for some videos, payment.	As per agreement/ EAB approved content creators	EAB governance process for approvals	Free for hosting links; $4/user license per year for hosting videos. Depending on complexity, there may be additional one-off costs	Can run customised profiles and provide commercial services

No system → Promote existing, Integrate or Create New?

1. **Reviewed several IEEE and non-IEEE systems** (ieee.tv, ILN, CLE, YouTube, vTools) and evaluated their suitability for sharing educational materials. *Highlights*: no syst is universal, any system requires ongoing support (both admin & tech)

2. *Three options considered*: **a) focus on a pure promotion of the existing systems to IEEE members**, **b) creation of an overarching interface helping people to use the system, c) creation of a brand new system**

<u>Notes:</u>

*   For any option, R8 will need a Chair or even a committee to run the process (for promotion of creating educational materials and usage/support of IEEE and non-IEEE system) and software system administration

*   For any system development in addition to the development costs, an annual budget for updates/upgrades will be required (est. 15%-20% of the development cost, at least for the first few years)

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2024 Schedule

- **Update Guidelines**, get them closer to "cookbooks" → us + with owners of tools (e.g. ILN): Q1-Q3 – **SENT TO YOU. YOUR INPUTS ARE NEEDED**

- **Webinars -** Promote creation of educational materials and the use of IEEE resources to R8 members, incl. owners of tools (e.g. ILN): Q2-Q4

- **Market research** to understand the preferences of potential uses (in terms of content, user interface, and what they know/do not know, are missing etc.): Q2-Q3

- **PLEASE COMPLETE THE SURVEY**

- **Cooperate** with EAB, R8 Committees: Q1-Q4

- **Fine-tune specifications for solution** based on survey & seek funding to implement the approach selected/the tool

Questions?